

SERIAL NO. 10/751,115

*IPW/JS*  
PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: <b>Alexander E. Smith</b>	Docket No.: RANN-0012 RPBPC REF: RANN-0012
Serial Number: 10/751,115	Art Unit: 3662
Filing Date: January 5, 2004	Examiner: LINDA DAO PHAN
Title: <b>Method and Apparatus to Correlate Aircraft Flight Tracks and Events with Relevant Airport Operations Information</b>	

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(c) (2)

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

Sir:

Transmitted herewith is an Information Disclosure Statement (Form PTO-1449) in the above-captioned application along with copies of the references cited.

This Information Disclosure Statement is submitted after three months from the filing date of the above-identified U.S. National Patent application, or after three months from date of entry into the U.S. National Stage of the International Application that has been assigned the above-identified U.S. Patent application number, whichever applies and after the mailing date of the first Office Action on the merits of the above-identified application, but prior to issuance of the earlier of any Final Action or Notice of Allowance sent in such application.

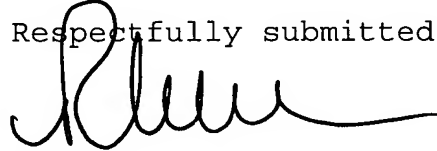
Applicant has submitted these references to comply with the duty of disclosure in the above-patented application. However, submission of these references is not to be construed as an admission by applicant that these references are Prior Art *per se*. In particular, applicant reserves the right to swear behind applicable references where possible and permissible.

SERIAL NO. 10/751,115

PATENT

The fee required under 37 C.F.R. § 1.97(c) and § 1.17(p) of \$180 is submitted herewith. The Commissioner is authorized to charge any additional fees or credit any overcharges to Deposit Account No. 50-1393. Consideration of the references and Examination on the Merits is respectfully requested.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'R. Bell', with a long horizontal flourish extending to the right.

Robert P. Bell  
Registration Number 34,546

Robert Platt Bell  
Registered Patent Attorney  
8033 Washington Road  
Alexandria, VA 22308

(703) 768-0340

February 7, 2005  
n:\work\forms\pto\ids\ids197.c1

# FORM PTO-1449 (MODIFIED)

## LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

In re Application of:  
Alexander E. Smith et al.

Docket No.: RANN-0012  
RPB REF: RANN-0012

Serial Number: 10/751,115

Art Unit: 3662

Filing Date: January 5, 2004

Examiner: LINDA DAO PHAN

Title: Method and Apparatus to Correlate Aircraft Flight Tracks and Events with Relevant Airport Operations Information

### U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	23	5,867,804	02/02/99	Pilley et al.	701	120	09/06/95
	24	5,144,315	09/01/92	Schwab et al.	342	49	12/10/90
	25	5,714,948	02/03/98	Farmakis et al.	340	961	04/16/96
	26	5,402,116	03/28/95	Ashley	340	870.1	04/28/92
	27	4,782,450	11/01/88	Flax	364	461	08/27/85
	28	3,705,404	12/05/72	Chisholm	343	112R	11/17/69
	29	6,211,811	04/03/01	Evers	342	36	11/03/99
	30	6,384,783	05/07/02	Smith et al.	342	387	12/21/99
	31	6,314,363	11/06/01	Pilley et al.	701	120	06/20/00
	32	5,629,691	05/13/97	Jain	340	961	05/26/95
	33	4,914,733	04/03/90	Gralnick	340	961	10/30/87
	34	6,133,867	10/17/00	Eberwine et al.	342	29	12/28/98
	35	4,167,006	09/04/79	Funatsu et al.	343	6.5 LC	09/04/79
	36	5,153,836	10/06/02	Fraughton et al.	364	461	08/22/90
	37	2002/0009267	01/09/03	Dunsky et al.	701	4	05/01/02
	38	6,292,721	09/18/01	Conner et al.	701	9	06/12/98
	39	6,219,592	04/17/01	Muller et al.	701	9	05/08/98
	40	6,347,263	01/12/02	Johnson et al.	701	14	10/15/99
	41	6,380,870	04/30/02	Conner et al.	343	970	02/01/00
	42	6,445,310	09/03/02	Bateman et al.	340	970	02/01/00
	43	6,477,449	11/05/02	Conner et al.	701	4	02/01/00
	44	6,571,155	05/27/03	Carriker at al.	701	3	07/02/01

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Information Disclosure Statement - Section 9 PTO-1449 (page 1 of 4))

n:\work\forms\ptoids\1449.ids

**FORM PTO-1449 (MODIFIED)****LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT**In re Application of:  
**Alexander E. Smith et al.**Docket No.: **RANN-0012**  
RPB REF: **RANN-0012**Serial Number: **10/751,115**Art Unit: **3662**Filing Date: **January 5, 2004**Examiner: **LINDA DAO PHAN**Title: **Method and Apparatus to Correlate Aircraft Flight Tracks and Events with Relevant Airport Operations Information****U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	#	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	45	6,606,034	09/12/03	Muller et al.	340	970	07/31/95
	46	6,469,664	10/22/02	Michaelson et al.	342	357.13	06/26/00
	47	5,454,720	10/03/95	FitzGerald et al.	434	27	05/21/94
	48	6,633,259	10/2003	Smith et al.	342	456	
	49	20020021247	02/2002	Smith et al.	342	450	
	50	3,668,403	01/1972	Meilander	701	121	
	51	5,381,140	01/1995	Kuroda et al.	340	961	
	52	5,752,216	05/1998	Carlson et al.	701	120	
	53						
	54						
	55						
	56						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATED Y N
	F01	JP 9-119983A	11/27/96	JAPAN			ABST
	F02	JP 8-146130A	5/29/96	JAPAN			ABST
	F03	JP 6-342061A	12/13/94	JAPAN			ABST
	F04	JP 9-288175A	11/04/94	JAPAN			ABST
	F05						
	F06						
	F07						

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Information Disclosure Statement - Section 9 PTO-1449 (page 2 of 4))

**FORM PTO-1449 (MODIFIED)****LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT**

In re Application of: <b>Alexander E. Smith et al.</b>		Docket No.: <b>RANN-0012</b> RPB REF: <b>RANN-0012</b>
Serial Number: <b>10/751,115</b>		Art Unit: <b>3662</b>
Filing Date: <b>January 5, 2004</b>		Examiner: <b>LINDA DAO PHAN</b>
Title: <b>Method and Apparatus to Correlate Aircraft Flight Tracks and Events with Relevant Airport Operations Information</b>		
<b>OTHER ART (including Author, Title, Pertinent Pages, etc.)</b>		
A17		"ADSE and Multilateration Mode-S Data Fusion for Location and Identification on Airport Surface", J.G. Herrero J.A. Portas, F.J. Rodriguez, (IEEE 1999 Radar Conference Proceedings, pp.315-320, April 20-22, 1999)
A18		D.C. Rickard, D.J. Sherry, S.J. Taylor, "The development of a prototype aircraft-height monitoring unit utilising an SSR-based difference in time of arrival technique", International Conference Radar 92 (Conf. Publ. No.365), 1992, p 250-3
A19		D. E. Manolakis and C. C. Lefas, "Aircraft geometric height computation using secondary surveillance radar range differences," IEE Proceedings-F, Radar, Sonar, Navigation, Vol 141, No.2, pp.139-148, 1994,
A20		REQUEST FOR PROPOSAL: NOISE AND OPERATIONS MONITORING SYSTEM, Indianapolis Airport Authority, Indianapolis, Indiana, September 29, 2003.
A21		ATTACHMENT A: TECHNICAL SPECIFICATIONS for a AIRCRAFT FLIGHT TRACK AND NOISE MANAGMENT SYSTEM for the REGIONAL AIRPORT AUTHORITY OF LOUISVILLE AND JEFFERSON COUNTY, Harris Miller Miller & Hanson, Inc., May 19, 2003.
A22		Application of CNS/ATM Technologies to Airport Management, Alex Smith and Jon Baldwin, Rannoch Corporation, Alexandria, Virginia.
A23		OVERVIEW OF THE FAA ADS-B LINK DECISION, John Scardina, Federal Aviation Administration, June 7, 2002.
A24		AUTOMATED CORRELATION OF AIRCRAFT FLIGHT TRACKS AND EVENTS WITH ATC DATA, Alex Smith, Rannoch Corporation, Alexandria, Virginia.
A25		DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION SYSTEM SPECIFICATION, GROUND-BASED TRANSCEIVER (GBT) FOR BROADCAST SERVICES USING THE UNIVERSAL ACCESS TRANSCEIVER (UAT) DATA LINK, FAA-E-2973, January 15, 2004.
EXAMINER		DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Information Disclosure Statement - Section 9 PTO-1449 (page 3 of 4))

**FORM PTO-1449 (MODIFIED)****LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT**

In re Application of: <b>Alexander E. Smith et al.</b>		Docket No.: <b>RANN-0015</b> RPB REF: <b>RANN-0015</b>	
Serial Number: <b>10/743,042</b>		Art Unit: <b>UNASSIGNED</b>	
Filing Date: <b>December 23, 2003</b>		Examiner: <b>UNASSIGNED</b>	
Title: <b>METHOD AND APPARATUS FOR ACCURATE AIRCRAFT AND VEHICLE TRACKING</b>			
<b>OTHER ART (including Author, Title, Pertinent Pages, etc.)</b>			
	P01		Protest Letter dated May 16, 2002 from Otto M. Wildensteiner, U.S. Department of Transportation, Washington, DC.
	P02		"Comparison of Claims in Application Serial Number 09/971,672 with Prior Art", May 16, 2002, Otto M. Wildensteiner, Department of Transportation, Washington, DC.
	P03		"Minimum Aviation System Performance Standards for Automatic Dependent Surveillance Broadcast (ADS-B)", RCTA, Inc. Washington, DC, ©1998
	P04		"Runway Incursion Reduction Program Dallas-Ft. Worth Formal Evaluation Report, Final Report", Trios Associates, Inc. December 21, 2000.
	P05		"TIS-B DFW Application for Airport Surface Situational Awareness", Trios Associates, Inc., September 6, 2000
	P06		"A Prototype Transceiver for Evaluating An Integrated Broadcast Data Link Architecture", Chris Moody & Warrent Wilson, RCTA SC-186, 17 August 1995, RTCA Paper No. 449-95/SC186-033
	P07		"The Universal Access Tranceiver (UAT)", Warren Wilson & Chris Moody, May 10, 1995.
	P08		"Terminal Area Productivity (TAP) Study Low Visibility Landing and Surface Operations (LVLASO) Demonstration Report" Surface Surveillance Products Team (AND-410) September 4, 1998.
	P09		"Phase I - Operational Evaluation FINAL REPORT Cargo Airline Association ADS-B Program, FAA SafeFlight 21 Program" April 10, 2000.
	P10		"Capstone Program Plan Version 1.0", Federal Aviation Administration, March 10, 1999.
	P11		"TIS-B Concept and Approach", MITRE, Chris Moody, February 29, 2000.
	P12		"RTCA Special Committee 186, Working Group 5 ADS-B UAT MOPS Meeting #2, Proposed Contents and Transmission Rates for ADS-B Messages" Chris Moody, MITRE Corp., February 20, 2001.
	P13		"AIRBORNE INFORMATION INITIATIVES: CAPITALIZING ON A MULTI-PURPOSE BROADCAST COMMUNICATIONS ARCHITECTURE", R.C. Strain, J.C. Moody, E.C. Hahn, B.E. Dunbar, S. Kavoussi, J.P. Mittelman, Digital Avionics Systems Conference, October 1995.
	P14		"Minutes of SC-186 WG-2 (TIS-B) Meeting", 13-14 June 2000
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.